

Claims

1. Pulse modulation circuitry comprising: a branching mean for receiving a pulsed signal from a pulse applying terminal and 5 also receiving a local oscillation signal from a local oscillation wave input terminal, and for outputting a pulsed signal having a frequency even times the frequency of the local oscillation signal to a pulse output terminal; a mixing means for mixing the pulsed signal delivered thereto by said branching 10 means and the local oscillation signal, and for furnishing a pulsed signal having a frequency even times the frequency of the local oscillation signal to said branching means; and a voltage dividing means for dividing a voltage applied to said mixing means.

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2. The pulse modulation circuitry according to Claim 1, characterized in that the voltage dividing means which consists of a resistor is disposed between the pulse applying terminal and the branching means.

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3. The pulse modulation circuit according to Claim 2, characterized in that the resistor which constitutes the voltage dividing means is a variable resistor.

25 4. The pulse modulation circuitry according to Claim 1, characterized in that the voltage dividing means which consists of a parallel circuit including a resistor and a capacitor is disposed between the mixing means and a ground, or between the branching means and said mixing means.

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5. The pulse modulation circuitry according to Claim 1,
characterized in that a resistor is disposed between the pulse
applying terminal and a ground.

5 6. The pulse modulation circuitry according to Claim 1,
characterized in that the voltage dividing means which consists
of a series circuit including a resistor and a diode is disposed
between the pulse applying terminal and the branching means.

10 7. The pulse modulation circuitry according to Claim 1,
characterized in that the voltage dividing means which consists
of a parallel circuit in which a series circuit including a
resistor and a diode and a capacitor are connected in parallel
is disposed between the mixing means and a ground or between
15 the branching means and said mixing means.

8. Pulse modulation circuitry comprising: a branching mean for
receiving a pulsed signal from a pulse applying terminal, and
for outputting a pulsed signal having a frequency even times
20 a frequency of a local oscillation signal to a pulse output
terminal; a mixing means for mixing the pulsed signal delivered
thereto by said branching means and the local oscillation signal
delivered thereto from a local oscillation wave input terminal,
and for furnishing a pulsed signal having a frequency even times
25 the frequency of the local oscillation signal to said branching
means; and a voltage dividing means for dividing a voltage
applied to said mixing means.

9. The pulse modulation circuit according to Claim 8,
30 characterized in that the voltage dividing means which consists

of a resistor is disposed between the pulse applying terminal and the branching means.

10. The pulse modulation circuit according to Claim 9,
5 characterized in that the resistor which constitutes the voltage dividing means is a variable resistor.

11. The pulse modulation circuit according to Claim 8,
characterized in that the voltage dividing means which consists
10 of a parallel circuit including a resistor and a capacitor is
disposed between the mixing means and the local oscillation wave
input terminal, or between the branching means and said mixing
means.

15 12. The pulse modulation circuit according to Claim 8,
characterized in that a resistor is disposed between the pulse
applying terminal and a ground.

13. The pulse modulation circuit according to Claim 8,
20 characterized in that the voltage dividing means which consists
of a series circuit including a resistor and a diode is disposed
between the pulse applying terminal and the branching means.

14. The pulse modulation circuitry according to Claim 8,
25 characterized in that the voltage dividing means which consists
of a parallel circuit in which a series circuit including a
resistor and a diode and a capacitor are connected in parallel
is disposed between the mixing means and the local oscillation
wave input terminal or between the branching means and said
30 mixing means.